JUN 1 1 2012

Section 5: 510(k) Summary

(as required by 21 CFR 807.92)

Submitter Information			
Name:	DePuy Orthopaedics		
Address:	700 Orthopedic Drive		
Phone number:	574-372-7745		
Fax number:	574- 371-4987		
Establishment Registration:	1818910		
Name of contact person:	Megan Burns		
Date prepared:	9 May 2012		
Device Information			
Trade or proprietary name:	: DePuy Delta Xtend TM Reverse Shoulder System		
Common or usual name:	Shoulder Prosthesis		
Class:	II		
Classification name:	21 CFR 888.3660: Prosthesis, shoulder, semi-constrained, metal/polymer cemented		
	Class II Device per 21 CFR 888.3690: Prosthesis, Shoulder, Hemi, Humeral, Metallic, Uncemented		
Classification panel:	Orthopedics		
Regulation:	21 CFR 888.3660: Shoulder joint metal/polymer semi-constrained cemented prosthesis		
	21 CFR 888.3690: Shoulder joint humeral (hemi-shoulder) metallic uncemented prosthesis		
Product Code(s):	KWS, HSD		
Legally marketed device(s)	DePuy Delta Xtend™ Reverse Shoulder System, K062250		
to which equivalence is	Comprehensive® Reverse Shoulder, K080642		
claimed:	Aequalis® Reversed Fracture Shoulder Prosthesis, K082120		
Reason for 510(k) submission:	Line extension and additional indication		
Device description:	The DePuy Delta Xtend™ Reverse Shoulder System is a total shoulder prosthesis that consists of monobloc and modular humeral stems, humeral cup, humeral head, humeral spacer, glenosphere, metaglene and metaglene screws.		
Intended Use:	The DePuy Delta Xtend™ Reverse Shoulder Prosthesis is intended for use in total shoulder or hemi-shoulder replacement procedures in patients with non-functional rotator cuffs, with or without bone cement. HA-coated components are for cementless use only.		

Device Information, continued:

Indications for use:

The Delta Xtend Shoulder Prosthesis is indicated for use in treatment of a grossly deficient rotator cuff joint with:

severe arthropathy and/or;

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- a previously failed joint replacement and/or;
- fracture-dislocations of the proximal humerus where the articular surface is severely comminuted, separated from its blood supply or where the surgeon's experience indicates that alternative methods of treatment are unsatisfactory

The patient's joint must be anatomically and structurally suited to receive the selected implant(s), and a functional deltoid muscle is necessary to use the device.

Delta Xtend hemi-shoulder replacement is also indicated for hemiarthroplasty if the glenoid is fractured intraoperatively or for the revision of a previously failed Delta Xtend Reverse Shoulder.

The metaglene component is HA coated and is intended for cementless use with the addition of screws for fixation.

The modular humeral stem and humeral epiphysis components are HA coated and intended for cementless use.

All other metallic components are intended for cemented use only.

Summary of t	he technological char	acteristics of the devi	ce compared to the p	redicate device
CHARACTERISTIC	Subject Device: Delta Xtend TM Reverse Shoulder (Long Peg Metaglene & Fracture Indication)	Metaglene Predicate Device: Delta Xtend TM Reverse Shoulder (DEPUY) K062250	Fracture Predicate <u>Device:</u> Aequalis Reversed Fracture (TORNIER) K082120	Fracture Predicate Device: Comprehensive Reverse (BIOMET) K080642
Shoulder System	Reverse articulation, modular humeral implant & monobloc humeral implant	Reverse articulation, modular humeral implant & monobloc humeral implant	Reverse articulation, monobloc humeral implant	Reverse articulation, modular humeral implant
Intended Use	• Total or hemi shoulder arthroplasty	• Same	• Same	• Same
Summary of the technological characteristics, continued:				
CHARACTERISTIC	Subject Device: Delta Xtend™ Reverse Shoulder (Long Peg Metaglene & Fracture Indication)	Metaglene Predicate Device: Delta Xtend TM Reverse Shoulder (DEPUY) K062250	Fracture Predicate Device: Aequalis Reversed Fracture (TORNIER) K082120	Fracture Predicate Device: Comprehensive Reverse (BIOMET) K080642

Components							
·	CoCr Monobloc stem and epiphysis Titanium modular epiphysis with HA coating Titanium modular stem with HA coating Titanium metalback standard metaglene with HA coating Titanium metalback long peg metaglene with HA coating (new components) Titanium screws CoCr hemispherical glenosphere component Ultra-high Molecular Weight Polyethylene (UHMWPE) or Premieron™ X-Linked Polyethylene cups Titanium humeral spacer	CoCr Monobloc stem and epiphysis Titanium modular epiphysis with HA coating Titanium modular stem with HA coating Titanium metalback standard metaglene with HA coating Titanium screws CoCr hemispherical glenosphere component Ultra-high Molecular Weight Polyethylene (UHMWPE) or Premieron TM X-Linked Polyethylene cups Titanium humeral spacer	Titanium alloy Monobloc stem and epiphysis Titanium metalback standard metaglene with HA coating Titanium metalback long peg Metaglene with HA coating Titanium alloy screws Cobalt Chromium hemispherical glenosphere component Ultra-high Molecular Weight Polyethylene (UHMWPE) cups CoCr alloy humeral spacer	Titanium alloy Monobloc stem and epiphysis Titanium modular epiphysis plate Titanium modular distal stem Titanium metalback standard metaglene with porous coating Titanium screws Cobalt Chromium hemispherical glenosphere component Ultra-high Molecular Weight Polyethylene (UHMWPE) cups			
Fixation							
Bone cement	Cemented/cementless	Same	Cemented only	Same			
Suture Holes	Yes	Yes	Yes	Yes			
SUMMARY	PERFORMANCE DATA SUMMARY OF NON-CLINICAL TESTS CONDUCTED FOR DETERMINATION OF SUBSTANTIAL EQUIVALENCE						
		ance Test Summary-N		- L- C			
equivalent in desig	the subject and predic n except in peg length. e existing glenosphere.	. The analysis also con	concluded the compo acluded the subject me				
	Comparative	Performance Inform	ation Summary				
Characteristic	Requiren	nent New Device		Predicate Device			
SUMMARY OF C EQUIVALENCE	ding was required to de CLINICAL TESTS CO AND/OR OF CLINIC	ONDUCTED FOR DICAL INFORMATION	ETERMINATION O	F SUBSTANTIAL			
No clinical tests were conducted to demonstrate substantial equivalence.							
	DRAWN FROM NO						
The results of the no	on-clinical testing dem	onstrate substantial ed	quivalence to the pred	icate.			

DEPARTMENT OF HEALTH & HUMAN SERVICES



Food and Drug Administration 10903 New Hampshire Avenue Document Control Room –WO66-G609 Silver Spring, MD 20993-0002

JUN 1 1 2012

Depuy Orthopedics % Ms. Megan Burns Associate, Regulatory Affairs 700 Orthopaedic Drive Warsaw, Indiana 46580

Re: K120174

Trade/Device Name: Depuy Delta XTend Reverse Shoulder

Regulation Number: 21 CFR 888.3660

Regulation Name: Shoulder joint metal/polymer semi-constrained cemented prosthesis

Regulatory Class: Class II Product Code: KWS, HSD

Dated: May 11, 2012 Received: May 14, 2012 .

Dear Ms. Burns:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you; however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act

or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Mark N. Melkerson

Director

Division of Surgical, Orthopedic and Restorative Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

Section 4: Indications for Use Statement

510(k) Number (if known): K012174 K120174

Device Name: DePuy Delta Xtend™ Reverse Shoulder System

INDICATIONS FOR USE:

The Delta Xtend Shoulder Prosthesis is indicated for use in treatment of a grossly deficient rotator cuff joint with:

- severe arthropathy and/or;
- a previously failed joint replacement and/or;
- fracture-dislocations of the proximal humerus where the articular surface is severely comminuted, separated from its blood supply or where the surgeon's experience indicates that alternative methods of treatment are unsatisfactory

The patient's joint must be anatomically and structurally suited to receive the selected implant(s), and a functional deltoid muscle is necessary to use the device.

Delta Xtend hemi-shoulder replacement is also indicated for hemi-arthroplasty if the glenoid is fractured intraoperatively or for the revision of a previously failed Delta Xtend Reverse Shoulder.

The metaglene component is HA coated and is intended for cementless use with the addition of screws for fixation.

The modular humeral stem and humeral epiphysis components are HA coated and intended for cementless use.

All other metallic components are	(Division Sign-Or Division of Surgic and Restorative D	ft)
Prescription Use X (Part 21 CFR 801 Subpart	510(k) Number	W 2017 U Over-The-Counter-Use (Part 21 CFR 807 Subpart C)
(PLEASE DO NOT WRITE BELOW	/ THIS LINE-CONT	TINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)